

CLAIMS

1. A key switch diaphragm (30) comprising:
 - a first leaf spring (16, 18) having conductivity, having a base (16) fixed relative to a reference surface (PL) and having a plate portion (18) raised in a direction away from the reference surface; and
 - a second leaf spring (32) having conductivity, being formed on a central portion of the plate portion raised in a direction away from the reference surface, wherein
- 10 when an external force acting toward the reference surface is applied to the second leaf spring (32), an edge (34) of the central portion comes into contact with the reference surface (PL).
- 15 2. The key switch diaphragm according to claim 1, wherein the first leaf spring has an angle cross section in a theoretical plane intersecting the reference surface.
3. The key switch diaphragm according to claim 1, wherein
- 20 the first leaf spring and the second leaf spring are disc springs.
4. The key switch diaphragm according to claim 1, further comprising at least one raised portion being raised toward
- 25 the reference surface, wherein
- when an external force acting toward the reference surface is applied to the second leaf spring, at least the raised portion comes into contact with the reference surface.

5. The key switch diaphragm according to claim 1, further comprising a third leaf spring formed on the second leaf spring raised in a direction away from the reference surface, wherein

5 when an external force acting toward the reference surface is applied to the third leaf spring, an edge of at least the third leaf spring comes into contact with the reference surface.

10 6. The key switch diaphragm according to claim 1, further comprising an opening formed in the second leaf spring, wherein

when an external force acting toward the reference surface is applied to the second leaf spring, an edge of at
15 least the opening comes into contact with the reference surface.

7. The key switch diaphragm according to claim 4, wherein the raised portion is raised in three parts, and the raised
20 parts are disposed at locations other than the center of the second leaf spring.

8. The key switch diaphragm according to claim 7, wherein the raised parts are disposed at equal distances from one
25 another on the circumference of a circle formed around a center of the second leaf spring.

9. A key switch comprising:
the diaphragm according to any one of claims 1 to 8;
30 a base plate on which a base of the diaphragm is placed

and which defines the reference surface and defines a conductor which is electrically insulated from the base; and

an actuator which applies an external force acting toward the reference surface to the diaphragm and which is
5 fixed relative to the base plate in position such that the actuator can move in a direction intersecting the reference surface.